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AMENDMENTS TO THE CLAIMS

1-23. (canceled)

- 24. (new) An isolated nucleic acid molecule encoding a zinc metalloprotease, wherein the nucleotide sequence of said nucleic acid molecule consists of a nucleotide sequence selected from the group consisting of:
- (a) a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence having at least 95% sequence identity to SEQ ID NO:2;
- (b) a nucleotide sequence having at least 95% sequence identity to SEQ ID NO:1;
- (c) a nucleotide sequence having at least 95% sequence identity to nucleotides 114-2546 of SEQ ID NO:1; and
- (d) a nucleotide sequence that is completely complementary to the nucleotide sequence of (a), (b), or (c).
- 25. (new) An isolated nucleic acid molecule encoding a zinc metalloprotease, wherein the nucleotide sequence of said nucleic acid molecule comprises a nucleotide sequence selected from the group consisting of:
- (a) a transcript or cDNA sequence that encodes a polypeptide comprising an amino acid sequence having at least 95% sequence identity to SEQ ID NO:2;
- (b) a nucleotide sequence having at least 95% sequence identity to SEQ ID NO:1;
- (c) a nucleotide sequence having at least 95% sequence identity to nucleotides 114-2546 of SEQ ID NO:1; and
- (c) a nucleotide sequence that is completely complementary to the nucleotide sequence of (a), (b), or (c).

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- 26. (new) An isolated nucleic acid molecule encoding a zinc metalloprotease, wherein the nucleotide sequence of said nucleic acid molecule comprises a nucleotide sequence having at least 95% sequence identity to SEQ ID NO:1 or the complement thereof.
- 27. (new) An isolated nucleic acid molecule encoding a zinc metalloprotease, wherein the nucleotide sequence of said nucleic acid molecule comprises a nucleotide sequence having at least 95% sequence identity to nucleotides 114-2546 of SEQ ID NO:1 or the complement thereof.
- 28. (new) An isolated transcript or cDNA nucleic acid molecule, wherein the nucleotide sequence of said nucleic acid molecule comprises a nucleotide sequence that encodes a zinc metalloprotease comprising an amino acid sequence having at least 95% sequence identity to SEQ ID NO:2, or the complement of said nucleotide sequence.
- 29. (new) The isolated nucleic acid molecule of claim 24, further comprising a heterologous nucleotide sequence.
- 30. (new) The isolated nucleic acid molecule of claim 29, wherein the heterologous nucleotide sequence encodes a heterologous amino acid sequence.
- 31. (new) The isolated nucleic acid molecule of claim 25, further comprising a heterologous nucleotide sequence.
- 32. (new) The isolated nucleic acid molecule of claim 31, wherein the heterologous nucleotide sequence encodes a heterologous amino acid sequence.
- 33. (new) A vector comprising the nucleic acid molecule of any one of claims 24-32.
- 34. (new) An isolated host cell containing the vector of claim 33.

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- 35. (new) A process for producing a polypeptide comprising culturing the host cell of claim 34 under conditions sufficient for the production of said polypeptide, and recovering said polypeptide.
- 36. (new) The vector of claim 33, wherein said vector is selected from the group consisting of a plasmid, a virus, and a bacteriophage.
- 37. (new) The vector of claim 33, wherein said nucleic acid molecule is inserted into said vector in proper orientation and correct reading frame such that a polypeptide having at least 95% sequence identity to SEQ ID NO:2 is expressed by a cell transformed with said vector.
- 38. (new) The vector of claim 37, wherein said isolated nucleic acid molecule is operatively linked to a promoter sequence.